Constraints-preserving Transformation from XML Document Type Definition to Relational Schema (2000) (Make Corrections) (15 citations)

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International Conference on Conceptual Modeling / the Entity Relationship Approach

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Abstract: As Extensible Markup Language (XML) [5] is emerging as the data format of the internet era, more needs to efficiently store and query XML data arise. One way towards this goal is using relational database by transforming XML data into relational format. In this paper, we argue that existing transformation algorithms are not complete in the sense that they focus only on structural aspects, while ignoring semantic aspects. We show the kinds of semantic knowledge that needs to be captured... (Update)

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.... **in, among other things, query optimization [34] data integration [21] and in data transformations between XML and database formats [28].** XML data usually comes with a DTD 1 that specifies how a document is organized. Thus, a specification of an XML document may consist of...

...redundancy. **Preliminary work has also been done on semantics preservation when translating data between the relational tables and XML [LC00] 3 Functional Dependencies in XML The well known de nition of functional dependencies for the relational data model is : Let r be a...**

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On XML Integrity Constraints in the Presence of DTDs - Fan, Libkin (2001) (Correct)
On Verifying Consistency of XML Specifications - Arenas, Fan, Libkin (Correct)
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9: Relational databases for querying xml documents: Limitations and opportunities (context) - Shanmugasundaram, He et al. - 1999
7: On XML integrity constraints in the presence of dtds - Fan, Libkin - 2001
7: Integrity constraints for XML - Fan, Sim'eon - 1999

BibTeX entry: **(Update)**

Lee, D., Chu, W. W. "Constraints-preserving Transformation from XML Document Type Definition to Relational Schema (Extended Version)", UCLA-CS-TR 200001 , 2000. http://www.cs.ucla.edu/dongwon/paper/ http://citeseer.nj.nec.com/lee00constraintspreserving.html More